PTO/SB/08A(10-01 Approved for USB Prough 10/31/2002 OMB 551-003 Prient & Tradema's Office U.S. DEPARTMENT OF COMMERCI

Complete of Known

Application Number 09/316515

Filing Date May 21, 1999

First Named Inventor Krig, David PECEIVED

Group Art Unit 3762

Examiner Name Evanisko, George

Attorney Docket No: 279.112US1

Sheet 1 of 5

Tag for form 1449A/PTO
FORMATION DISCLOSURE

STATEMENT BY APPLICANT

(Use as many sheets as necessary)

		US PA	ATENT DOCUMENT		•	
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
·	US-4,208,008	06/17/1980	Smith, B. L.	371	15	11/06/1978
	US-4,432,360	02/21/1984	Mumford, V. E., et al.	128	419 PG	07/06/1981
	US-4,562,841	01/07/1986	Brockway, B. P., et al.	128	419 PG	08/05/1982
	US-4.596,255	06/24/1986	Snell, et al.	128	697	02/15/1985
	US-4,791,936	12/20/1988	Snell, et al.	128	697	06/20/1986
	US-4,809,697	03/07/1989	Causey III, J. D., et al.	128	419 PT	10/14/1987
- 	US-4,869,252	09/26/1989	Gilli, N. L.	128	419 PG	01/11/1988
	US-4,890,617	01/02/1990	Markowitz, H. T., et al.	128	419 PG	11/25/1987
	US-4,940,054	07/10/1990	Grevis, R., et al.	128	419 PG	04/29/1988
	US-4,941,471	07/17/1990	Mehra, Rahul	128	419	09/07/1988
	US-4,944,298	07/31/1990	Sholder,	128 .	419 PG	05/23/1989
$\neg + \neg$	US-4,944,928	07/31/1990	Grill, M., et al.	423	161	06/23/1988
	US-4,972,834	11/27/1990	Begemann, Malcolm, et al.	128	419	09/30/1988
-	US-5.012.814	05/07/1991	Mills, G. N., et al.	128	691	11/09/1989
	US-5,107,850	04/28/1992	Olive, A. L.	128	705	11/02/1990
	US-5,144,949	09/08/1992	Olson, W. H.	128	419 PG	03/15/1991
	US-5,156,147	10/20/1992	Warren, J. A., et al.	128	419.0 PG	02/05/1991
	US-5.179.949	01/19/1993	Chirife, R.	128	419 PG	12/07/1990
	US-5,184,614	02/09/1993	Collins, et al.	128	419 PG	10/19/1990
	US-5,193,535	03/16/1993	Bardy, G. H., et al.	128	419 D	08/27/1991
	US-5,193,550	03/16/1993	Duffin,	129	697	11/30/1990
	US-5,197,467	03/30/1993	Steinhaus, B. M., et al.	128	419 PG	06/22/1992
	US-5,292,341	03/08/1994	Snell, J. D.	607	30	03/02/1992
	US-5,311,874	05/17/1994	Baumann, L. S., et al.	128	705	05/18/1992
	US-5,360,437	11/01/1994	Thompson, D. L.	607	30	11/08/1993
	US-5,372,607	12/13/1994	Stone, et al.	607	30	06/23/1993
	US-5,379,776	01/10/1995	Murphy, A. J., et al.	128	705	12/01/1993
	US-5,395,373	03/07/1995	Ayers, G. M.	607	8	01/07/1993
	US-5,431,691	07/11/1995	Snell, J. D., et al.	607	27	03/02/1992
	US-5,437,285	08/01/1995	Verrier, et al.	128	702	11/30/1993
	US-5,474,574	12/12/1995	Payne, E. G., et al.	607	7	06/24/1992
	US-5,522,850	06/04/1996	Yomtov, B. M., et al.	607	5	06/23/1994
	US-5,523,942	06/04/1996	Tyler, Max C., et al.	364	401	03/31/1994
	US-5,540,232	07/30/1996	Laney, B., et al.	128	697	04/19/1994

EXAMINER DATE CONSIDERED 2/27/4

PTC/SB05A(10 01 Approved for use through 10/31/2022 ONB 651-0031 US Parent 6 Trademark Office U.S. DEPARTMENT OF COMMERCE

Substitute for form 1448APTO
INFORMATION DISCLOSURE Complete if Known **Application Number** 09/316515 STATEMENT BY APPLICANT May 21, 1999 Filing Date (Use as many sheets as necessary) First Named Inventor Krig, David TECHNOLOGY CENTER H3700; **Group Art Unit** 3762 **Examiner Name** Evanisko, Gcorge Attorney Docket No: 279.112US1 Sheet 2 of 5

	US-5,545,182	08/13/1996	Stotts, L. J., et al.	607	5	09/21/1994
	US-5,549,649	08/27/1996	Florio, J. J., et al.	607	15	06/10/1994
	US-5,549,654	08/27/1996	Powell, R. M.	607	32	04/15/1994
	US-5,554,174	09/10/1996	Causey III, J. D.	607	5	10/18/1995
	US-5,560,370	10/01/1996	Verrier, et al.	128	705	05/26/1995
	US-5,605,159	02/25/1997	Smith, et al.	128	702	02/16/1996
-	US-5,607,460	03/04/1997	Kroll, M. W., et al.	607	30	03/15/1996
	US-5,613,495	03/25/1997	Mills, G. N., et al.	128	696	07/06/1995
	US-5,620,471	04/15/1997	Duncan.	607	14	06/16/1995
	US-5,620,473	04/15/1997	Poore, J. W.	607	27	03/08/1995
	US-5,622,178	04/22/1997	Gilham, J. J.	128	696	05/04/1994
	US-5,674,250	10/07/1997	de Coriolis, P. E., et al.	607	7	04/29/1996
- 	US-5,674,251	10/07/1997	Combs, W. J., et al.	607	4	03/26/1996
	US-5,676,153	10/14/1997	Smith, et al.	128	702	10/25/1996
	US-5,683,429	11/04/1997	Mehra, R.	602	14	04/30/1996
	US-5,716,382	02/10/1998	Snell, J. D.	607 '	30	08/02/1995
	US-5,716,384	02/10/1998	Snell,	607	30	07/08/1996
	US-5,718,235	02/17/1998	Golosarsky, Boris , et al.	128	708	07/30/1996
	US-5,724,985	03/10/1998	Snell, J. D., et al.	128	697	08/02/1995
	US-5,725,559	03/10/1998	Alt, E., et al.	607	5	05/16/1996
	US-5,741,304	04/21/1998	Patwardhan, et al.	607	5	10/17/1995
	US-5,749,901	05/12/1998	Bush, et al.	607	5	05/07/1996
	US-5,755,739	05/26/1998	Sun, W., et al.	607	14	12/04/1996
	US-5;759,196	06/02/1998	Hess, M. F., et al.	607	14	09/29/1995
	US-5,814,081	09/29/1998	Ayers, et al.	607	5	04/07/1997
	US-5,840,079	11/24/1998	Warman, E. N., et al.	607	4	03/27/1997
	US-5,842,997	12/01/1998	Verrier, R. L., et al.	600	518	04/30/1997
	US-5,865,838	02/02/1999	Obel, M., et al.	607	5	09/18/1997
	US-5,891,178	04/06/1999	Mann, B. M., et al.	607	27	05/13/1997
	US-5,902,324	05/11/1999	Thompson, D. L., et al.	607	9	04/28/1998
	US-5,968,079	10/19/1999	Warman, et al.	607	5	03/18/1998
	US-5,974,341	10/26/1999	Er, et al.	607	31	12/22/1997
	US-5,987,354	11/16/1999	Cooper, R. A., et al.	607	5	10/14/1997
	US-5,991,657	11/23/1999	Kim, J.	607	5	08/06/1998
	US-5,991,662	11/23/1999	Kim, et al.	607	27	06/23/1998
	US-6,041,251	03/21/2000	Kim, J., et al.	600	518	07/01/1998
	US-6,047,210	04/04/2000	Kim, J., et al.	607	4	09/03/1998
	US-6,052,617	04/18/2000	Kim, J.	600	518	07/01/1998
	US-6,081,746	06/27/2000	Pendekanti, R., et al.	607	5	08/07/1998
	US-6,081,748	06/27/2000	Struble, C. L., et al.	607	9	04/22/1999

EXAMINER

DATE CONSIDERED

PTO/EB/08A(10-0'
Approved for use through 10/31/2002, CMB 651-003
Patent & Tippemers Office U.S. DEPARTMENT OF COMMERC

05/01/1978

04/01/1997

01/23/1989

SUNGULE for form 1449A/PTO
HE ORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use as many shedts as necessary)

US-Re 30,387

US-Re 36,765

US-Re 38,119

08/26/1980

07/04/2000

05/20/2003

Application Number	09/316515	PEOP
Filing Date	May 21, 1999	RECEIV
First Named Inventor	Krig, David	OCT 2 0 20
Group Art Unit	3762	
Examiner Name	Evanisko, George	CHNOLOGY CENTE

Sheet 3 of 5

	US-6,085,116	07/04/2000	Pendekanti, R., et al.	607	5	08/07/1998
1	US-6,088,618	07/11/2000	Kerver, H. B.	607	30	07/07/1998
	US-6,096,064	08/01/2000	Routh, A. G.	607	9	09/19/1997
	US-6,122,545	09/19/2000	Struble, C. L., et al.	607	9	04/28/1998
	US-6,128,529	10/03/2000	Elser, James	607	4	01/29/1997
<u>i</u>	US-6,129,745	10/10/2000	Sun, W., et al.	607	27	10/23/1998
	US-6,151,524	11/21/2000	Krig, David B., et al.	607	14	08/18/1999
	US-6,223,072	04/24/2001	Mika, Yuval, et al.	600	510	06/08/1999
	US-6,249,699	06/19/2001	Kim, J.	607	4	09/03/1998
	US-6,256,534	07/03/2001	Dahl, R.	607	5	08/11/1998
	US-6,263,242	07/01/2001	Mika, Yuval, et al.	607	9	03/25/1999
	US-6,266,554	07/24/2001	Hsu, William, et al.	600	515	02/12/1999
	US-6,272,380	08/07/2001	Warman, E. N., et al.	607	5	08/19/1999
	US-6,317,632	11/13/2001	Krig, D. B., et al.	607	14	10/11/2000
	US-6,353,759	03/05/2002	Hartley, Jesse W., et al.	607	9	10/20/2000
	US-6,353,761	05/05/2002	Conley, Vickie, et al.	607	28	08/20/1999
	US-6,411,848	06/25/2002	Kramer, Andrew P., et al.	607	9	04/18/2001
	US-6,424,865	07/23/2002	Ding, Jiang	607	9	07/13/2000
	US-6,438,410	08/20/2002	Hsu, William, et al.	600	516	05/03/2001
	US-6,501,987	12/31/2002	Lovett, Eric G., et al.	607	9	05/26/2000
	US-6,501,988	12/31/2002	Kramer, A. P., et al.	607	9	12/26/2000
	US-6,512,951	01/28/2003	Marcovecchio, A. F., et al.	607	5	09/14/2000

Attorney Docket No: 279.112US1

	Facelon Decomposition	-17 "-"	Name of Patentse or Applicant of			
Examiner initials*	Foreign Document No	Publication Date	cited Document	Class	Subclass	1,5
	EP-0360412	03/28/1990	Haluska, E. A.	A61N	1/365	
	EP-0401962	12/12/1990	Pless, B. D., et al.	A61N	1/368	
	EP-0597459	05/18/1994	Akhtar, M.	A61N	1/39	
	EP-0617980	10/05/1994	Murphy, A. J., et al.	A61N	1/368	
	EP-0748638	12/18/1996	Duncan, J. L.	A61N	1/368	
	WO-00/71200	11/30/2000	Krig, D. B., et al.	A61N	1/362	
	WO-00/71203	11/30/2000	Chen, V. T., et al.	A61N	1/39	
	WO-0071202	11/30/2000	Kramer, A. P., et al.	A61N	1/362	L
	WO-95/09029	04/06/1995	Weinberg, Lisa P., et al.	A61N		

Denniston III, Rollin

Mower, Morton M.

H., et al.

Mehra, R.

EXAMINER

DATE CONSIDERED

128

607

607

419

4

9

P10/SB084(10-01)
Approved for use Rivough 10/31/2002 ONB 851-0031
Falon & Tridemark Office U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449APTO	Complete il Known				
FORMATION DISCLOSURE TATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	09/316515			
	Filing Date	May 21, 1999	RECFIVE		
	First Named Inventor	Krig, David			
	Group Art Unit	3762	0 2 0 2003		
	Examiner Name	Evanisko, Georg	ECHNOLOGY CENTER R		
Sheet 4 of 5	Attorney Docket No: 2	79.112US1			

Examiner	Cite	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	T
Initials*	No 1	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
^		French CNH Equipment Approvals", Clinica, 417, p. 9, (September 5, 1990),3	
		"Pacemaker System Guide for PULSAR MAX II; Mulitprogrammable	
		Pacemakers", Product brochure published by Guidant Corporation,(April 18, 1999),pp. 6 - 48 and 6 - 4	
		"Pacemaker System Guide for PULSAR MAX II; Multiprogrammable	┼
		Pacemakers", Product brochure published by Guidant Corporation, (1999), pg 6-39 - 6-51 A A . (5, 1999)	
1		"Rate-Adaptive Devices Impact Pacemaker Market", Clinica, 467, p. 16, (September 11, 1991),6 pages	
00		"Vitatron Medical Harmony Automatic Dual Chamber Pacemaker Product	
ORIZ		Information and Programming Guide", Product Brochure published by Vitatron Medical,(Date Unknown),22 pgs	
,,,		BLOMMAERT, D., et al., "Effective Prevention of Atrial Fibrillation by	+-
		Continuous Atrial Overdrive Pacing After Coronary Artery Bypass Surgery",	
<u> </u>		JACC, Vol. 35, No. 6, (May 2000),pp. 1411-1415	L
		BUHR, TRINA A., et al., "Novel Pacemaker Algorithm Diminishes Short-Coupled Ventricular Beats In Atrial Fibrillation", PACE, Vol. 24, Part II, (April 2001),729	
		CAMPBELL, R. M., et al., "Atrial Overdrive Pacing for Conversion of Atrial Flutter	
		Pin Children", <u>Pediatrics, Vol. 75, No. 4, (April 1985),pp. 730 - 736</u>	
		FROMER, M., et al., "Algorithm for the Prevention of Ventricular Tachycardia	
	•	Onset: The Prevent Study", The American Journal of Cardiology, 83 (5B), (Mar. 11, 1999),pp. 45D-47D	
		GARRIGUE, S., et al., "Prevention of Atrial Arrhythmias during DDD Pacing by Atrial Overdrive", PACE, Vol. 21, (September 1998),pp. 1751 - 1759	
		HEUER, H., et al., "Dynamische Zweikammer-Overdrive-Stimulation mit einem	
1 1		implantierbaren Schrittmachersystem als neue Methode zur Beendigung	
		Langsamer ventrikularer Tachykardien", Z Kardiol; 75, Includes English	
		translation (5 pgs.),(1986),pp. 673 - 675	-
		Leads: Evaluation of Computer Algorithm", PACE, 11, (1988),pp. 622-631	
		JUNG, J., et al., "Discrimination of Sinus Rhythm, Atrial Flutter, and Atrial	
		Fibrillation Using Bipolar Endocardial Signals*, <u>Journal of Cardiovascular</u> <u>Electrophysiology</u> , 9 (7), (July 1998),pp. 689-695	
		LAU, CHU-PAK, et al., "Efficacy of Ventricular Rate Stabilization by Right	
		/ ⁷ /Ventricular Pacing During Atrial Fibrillation", <u>PACE, Vol. 21,</u> (March 1998),542-548	
		MORRIS, et al., "Intracardiac Electrogram Transformation: Morphometric	Г
1 1		(Dimplications for Implantable Devices", <u>Journal of Electrocardiology</u> , 29	
		Supplement, (1996),pp. 124-129 MOWER, MORTON, U.S. Patent Office Patent Application Information	╀

2/2/14

EXAMINER (· .	DATE CONSIDERED	2/	27/	4
			_		

PTO/SB/08A(10-0 Approved for use through 10/31/2002 OMB-051-00 Valve & Tretement Office U.S. DEPARTMENT OF CONNERS

Substitute for form 1449APTO	Under the Paperson Reduction Act of 1965, no persons are required to respond to a collection of information visites a contains a visid OMB control number. Complete If Known				
INFORMATION DISCLOSURE	Application Number	09/316515			
Use as many sheets as necessary)	Filing Date	May 21, 1999			
	First Named Inventor	Krig, David			
	Group Art Unit	3762			
	Examiner Name	Evanisko, George			
Sheet 5 of 5	Attorney Docket No: 2	279.112US1			

	OTHER	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item [book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1,
1	1	Retrieval (PAIR) search results for U.S. Patent Application Serial No. 20/214,474, filed on 8/8/02, entitled "METHOD AND APPARATUS FOR TREATING HEMODYNAMIC DISFUNCTION", 3	
	/	MURGATROYD, F. D., et al., "A New Pacing Algorithm for Overdrive Suppression of Atrial Fibrillation", Pace, Vol. 17., (November 1994, Part),pp. 1966 - 1973	
	/	SCHULLER, et al., "Far Field R-Wave Sensing - An Old Problem Repeating", PACE, 19, Part II, NASPE Abstract No. 264,(1996),p. 631	
		SEIM, G., et al., "Classification of Atrial Flutter and Atrial Fibrillation Using an Atrial Dispersion Index (ADI)", Guidant CRM Therapy Research Peer Review Report Revision 2.0, (Jan. 6, 1999),27 p.	
	ő	STEPHANY, et al., "Real-Time Estimation of Magnitude-Square Coherence for Use in Implantable Devices", IEEE Computers in Cardiology, (1992),pp. 375-378	
		SUTTON, R., "Pacing in Atrial Arrhythmias", PACE, Vol. 13, (December 1990, Part),pp. 1823 - 1827	
	ő	SWIRYN, S., et al., "Detection of Atrial Fibrillation by Pacemakers and Antiarrhythmic Devices", Nonpharmacological Management of Atrial Fibrillation, Chapter 21, Futura Publishing Co, Inc. Armonk, NY, (1997), pp. 309-318	
	2	WITTKAMPF, FRED H., et al., "Effect of Right Ventricular Pacing on Ventricular Rhythm During Atrial Fibrillation", JACC, Vol. 11, No. 3, (March 1988),539-545	
7	-	ZHU, D. W., "Electrophysiology, Pacing and Arrhythmia", Clin. Cardiol., Vol. 19, (September 1996),pp. 737 - 742	

PL OCT 20 CL CENTER ROLL

DATE CONSIDERED 2/27/4

PTO/SB/08A(10-01)
Approved for use through 10/31/2002. OMB 651-0031
US Patent & Trademark Office: US. DEPARTMENT OF COMMERCE
po of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	09/316515		
(Use as many sheets as necessary)	Filing Date	May 21, 1999		
	First Named Inventor	Krig, David		
	Group Art Unit	3762		
	Examiner Name Evanisko, George			
Sheet 1 of 1	Attorney Docket No: 2	279.112US1		

		US P	ATENT DOCUMENT	S		
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
_	US-4,932,406	06/12/1990	Berkovits, Barouh V.	128	419PG	09/23/1988
1	US-5,713,928	02/03/1998	Bonnet, Jean L., et al.	607	9	07/25/1996
<u> </u>	US-5,931,856	08/03/1999	Bouhour, Anne, et al.	607	9	11/21/1997

FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²			
	WO-00/38782	07/06/2000	Igel, D. A., et al.	A61N	1/368				

OTHER DOCUMENTS NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	T ²			
		publisher, city and/or country where published.				

DATE CONSIDERED **EXAMINER**